

## Problems with the homework?

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Let  $x$  = original cost of the item in dollars

$$22. \quad x + 4.95 = 0.09x + x$$

$$\frac{4.95}{0.09} = \frac{0.09x}{0.09}$$

$$55 = x$$

The cost is \$55

verify	
LS	RS
4.95	0.09x
0.09(55)	4.95

$$LS=RS \therefore cost = \$55$$

$$24. \quad \begin{array}{r} (5) \\ 4x + 37 = -17 \end{array}$$

$$\begin{array}{r} (5) \\ 4x + 37 = -17 \\ -37 \quad -37 \\ \hline 20x = -122 \\ \hline 20 \quad 20 \\ x = -6.1 \end{array}$$

LS	RS
$4x + 37$	-17
5	
$4(-6.1) + 37$	5
-24.4 + 37	-17

$$LS=RS \therefore x = -6.1$$

$$24.c) \quad \begin{array}{r} (12) \\ \frac{3}{4} - 5p = \frac{67}{6} \end{array}$$

$$\begin{array}{r} (12) \\ 9 \quad -9 \\ 9 - 60p = 134 \end{array}$$

$$\begin{array}{r} (12) \\ -60p = 125 \\ -60 \quad -60 \\ p = -\frac{25}{12} \end{array}$$

LS	RS
$\frac{3}{4} - 5p$	$\frac{67}{6}$
$\frac{3}{4} - 5\left(-\frac{25}{12}\right)$	
$\frac{3}{4} + \frac{125}{12}$	
$\frac{9}{12} + \frac{125}{12}$	
$\frac{134}{12}$	
$\frac{67}{6}$	

$$LS=RS \therefore p = -\frac{25}{12}$$

Show all work



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Solve and verify

1)  $7 - 6x = 85$

3)  $10x + 4 = -2x - 32$

2)  $\frac{-6x + 7}{4} = \frac{4}{5}$

4)  $6(x-3) = 30$

Show all work

Solve and verify

$$\begin{aligned} 1) \quad & 7 - 6x = 85 \\ & \underline{-6x} = \underline{78} \\ & \underline{-6} \quad \underline{-6} \\ & x = -13 \end{aligned}$$

$$\begin{array}{c|c} \text{LS} & \text{RS} \\ \hline 7 - 6x & 85 \\ 7 - 6(-13) & | \\ 7 + 78 & | \\ 85 & | \end{array} \quad \text{LS} = \text{RS} : x = -13$$

$$\begin{aligned} 2) \quad & \frac{-6x + 7}{4} = \frac{4}{5} \\ & \underline{-30x} + \underline{140} = \underline{-140} \\ & \underline{-30} \quad \underline{-30} \\ & x = \underline{\frac{62}{15}} \end{aligned}$$

$$\begin{array}{c|c} \text{LS} & \text{RS} \\ \hline -6x + 7 & 4 \\ \frac{7}{4} & \frac{4}{5} \\ -6(\frac{15}{4}) + 7 & | \\ -2(\frac{15}{4}) + 7 & | \\ -\frac{124}{20} + \frac{140}{20} & | \\ \frac{16}{20} & | \end{array} \quad \text{LS} = \text{RS} : x = \frac{16}{20}$$

$$\begin{aligned} 3) \quad & 10x + 4 = -2x - 32 \\ & \underline{12x} + \underline{4} = \underline{-32} \\ & \underline{12} \quad \underline{12} \\ & x = -3 \end{aligned}$$

$$\begin{array}{c|c} \text{LS} & \text{RS} \\ \hline 10x + 4 & -2x - 32 \\ 10(-3) + 4 & | \\ -30 + 4 & | \\ -26 & | \end{array} \quad \text{LS} = \text{RS} : x = -3$$

$$4) \quad \widehat{6(x-3)} = 30$$

$$\begin{aligned} & 6x - 18 = 30 \\ & \underline{6x} = \underline{48} \\ & \underline{6} \quad \underline{6} \\ & x = 8 \end{aligned}$$

$$\begin{array}{c|c} \text{LS} & \text{RS} \\ \hline 6(x-3) & 30 \\ 6(\frac{8-3}{5}) & | \\ 6(\frac{5}{5}) & | \\ 30 & | \end{array} \quad \text{LS} = \text{RS} : x = 8$$